JVC®

Color Television User's Guide

For Models:

AV-36050
AV-36020
AV-32050
AV-32020
AV-32015
AV-27050

Illustration of AV-32050 and RM-C341

IMPORTANT NOTE TO THE CUSTOMER:
In the spaces below, enter the model and serial number
for your television (located on the rear of the television cabinet).
Staple your sales receipt or invoice to the inside cover of this guide.
Keep this user's guide in a convenient place for future reference.
Keep the carton and original packaging for future use.

Model Number

Serial Number

IMPORTANT SAFETY PRECAUTIONS

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: To reduce the risk of electric shock. do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.

The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS TV SET TO RAIN OR MOISTURE.

CAUTION: TO INSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS UNIT.

1. Operate only from the power source specified on the unit.
2. Avoid damaging the AC plug and power cord.
3. Avoid Improper installation and never position the unit where good ventilation is unattainable.
4. Do not allow objects or liquid into the cabinet openings.
5. In the event of trouble, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

Changes or modifications not approved by JVC could void the warranty.

* When you don't use this TV set for a long period of time, be sure to disconnect both the power plug from the AC outlet and antenna for your safety.

* To prevent electric shock do not use this polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

IMPORTANT SAFEGUARDS

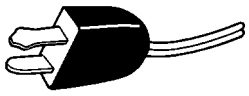
CAUTION:

Please read and retain for your safety.
Electrical energy can perform many useful functions. This TV set has been engineered and manufactured to assure your personal safety. But *improper use can result in potential electrical shock or fire hazards.* In order not to defeat the safeguards incorporated in this TV set, observe the following basic rules for its installation, use and servicing.
And also follow all warnings and instructions marked on your TV set.

INSTALLATION

1 Your TV set is equipped with a polarized AC line plug (one blade of the plug is wider than the other).

(POLARIZED-TYPE)



This safety feature allows the plug to fit into the power outlet only one way. Should you be unable to insert the plug fully into the outlet, try reversing the plug.
Should it still fail to fit, contact your electrician.

2 Operate the TV set only from a power source as indicated on the TV set or refer to the operating instructions for this information. If you are not sure of the type of power supply to your home, consult your TV set dealer or local power company. For battery operation, refer to the operating instructions.

3 Overloaded AC outlets and extension cords are dangerous, and so are frayed power cords and broken plugs. They may result in a shock or fire hazard. Call your service technician for replacement.

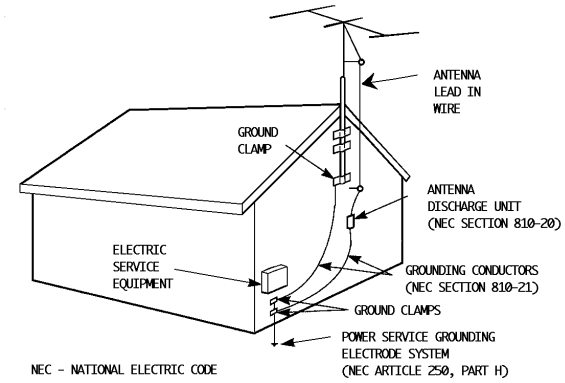
4 Do not allow anything to rest on or roll over the power cord, and do not place the TV set where power cord is subject to traffic or abuse. This may result in a shock or fire hazard.

5 Do not use this TV set near water — for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near swimming pool, etc.

6 If an outside antenna is connected to the TV set, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection requirements for the grounding electrode.

7 An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE


ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ARTICLE 250, PART H)
NEC - NATIONAL ELECTRIC CODE

8 TV sets are provided with ventilation openings in the cabinet to allow heat generated during operation to be released. Therefore:
- — Never block the bottom ventilation slots of a portable TV set by placing it on a bed, sofa, rug, etc.
- — Never place a TV set in a “built-in” enclosure unless proper ventilation is provided.
- — Never cover the openings with a cloth or other material.
- — Never place the TV set near or over a radiator or heat register.

9 To avoid personal injury:
- — Do not place a TV set on a sloping shelf unless properly secured.
- — Use only a cart or stand recommended by the TV set manufacturer.
- — Do not try to roll a cart with small casters across thresholds or deep pile carpets.
- — Wall or shelf mounting should follow the manufacturer’s instructions, and should use a mounting kit approved by the manufacturer.

USE

10 Caution children about dropping or pushing objects into the TV set through cabinet openings. Some internal parts carry hazardous voltages and contact can result in a fire or electrical shock.

11 Unplug the TV set from the wall outlet before cleaning. Do not use liquid or an aerosol cleaner.

12 Never add accessories to a TV set that has not been designed for this purpose. Such additions may result in a hazard.

13 For added protection of the TV set during a lightning storm or when the TV set is to be left unattended for an extended period of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to product due to lightning storms or power line surges.

14 A TV set and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the TV set and cart combination to overturn.

SERVICE

15 Unplug this TV set from the wall outlet and refer servicing to qualified service personnel under the following conditions:
- A. When the power cord or plug is damaged or frayed.
- B. If liquid has been spilled into the TV set.
- C. If the TV set has been exposed to rain or water.
- D. If the TV set does not operate normally by following the operating instructions. Adjust only those controls that are covered in the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV set to normal operation.
- E. If the TV set has been dropped or damaged in any way.
- F. When the TV set exhibits a distinct change in performance — this indicates a need for service.

16 Do not attempt to service this TV set yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

17 When replacement parts are required, have the service technician verify in writing that the replacement parts he uses have the same safety characteristics as the original parts. Use of manufacturer’s specified replacement parts can prevent fire, shock, or other hazards.

18 Upon completion of any service or repairs to this TV set, please ask the service technician to perform the safety check described in the manufacturer’s service literature.

19 When a TV set reaches the end of its useful life, improper disposal could result in a picture tube implosion. Ask a qualified service technician to dispose of the TV set.

20 Note to CATV system installer.
This reminder is provided to call the CATV system installer’s attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

WELCOME!

Congratulations on your new television purchase! We thank you for choosing JVC.

We know you are anxious to start watching your new television, but before you operate it, please read this guide and then keep it handy for future reference. After all, you just bought a great TV with a lot of terrific features, you should know what each feature is and how to use it properly!

Please note as you read through this guide, that there are illustrations of select models for your reference. There are several models in this guide and therefore each illustration will not be of the model you own. Just be sure to look for the similar feature on your TV.

Again, congratulations and thank you for choosing JVC! Enjoy!

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CONNECTIONS CHECKLIST — READ ME FIRST!

The Connections Checklist section of this guide is a list of ideas to keep in mind when you set out to perform your connections. It is designed to help us not-so-technically-advanced individuals. If you read this section, and can't identify the plugs, connectors, and components you have, do not be afraid to seek help.

1) Refer to the connection instructions in the user's guide for each component you plan to connect. They will provide more detailed information about their products, and they will tell you what plugs and cables are required.

2) Most A/V input jacks and plugs are color coded:

- Yellow plugs are Video connections
- Red plugs are for Right Audio connections
- White plugs are Left Audio (Mono) connections

3) Perform one hookup at a time. If you have many accessories to connect, make sure each connection is correct by checking to see that it works properly before attempting the next connection. (For example, always start with the RF or Cable connections, make sure it works, then move on to video or VCR connections.)

4) Unplug the power cord between each connection.

5) Each jack on the back of the TV is labeled. If you read these instructions and still do not fully understand the connections process, seek assistance.

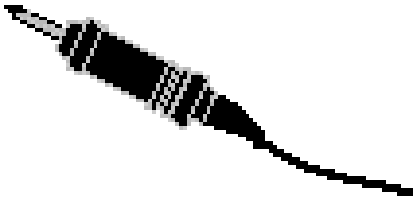
6) The AV Compu Link Cable is supplied with the JVC device which you want to connect. If you do not have one, but you do have a JVC Compu Link capable VCR or HiFi, contact your local JVC dealer.

RF Connectors

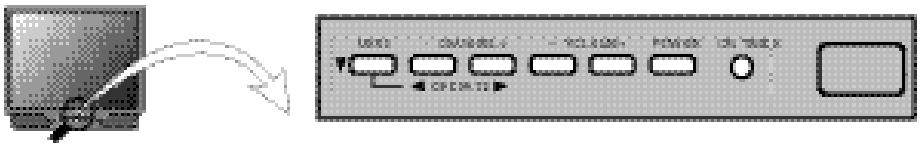
S-Video Plug

A/V Input Plug

AV Compu Link Cable



FRONT PANEL DIAGRAMS

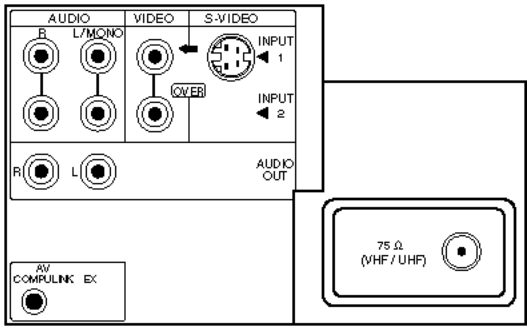


FRONT PANEL DIAGRAM
AV-36020 • AV-32050
AV-32020 • AV-32015
AV-27050

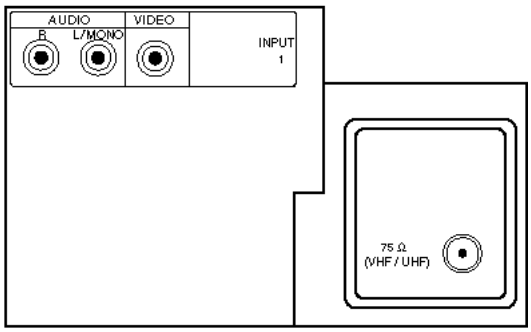
FRONT PANEL DIAGRAM
AV-36050

6 CONNECTIONS

REAR PANEL DIAGRAMS



REAR PANEL DIAGRAM
AV-36050 • AV-32050 • AV-27050
AV-36020 • AV-32020
(The rear panels for the above modes are nearly identical. The only difference between them is a small difference in the size of RF panels.)



REAR PANEL DIAGRAM
AV-32015

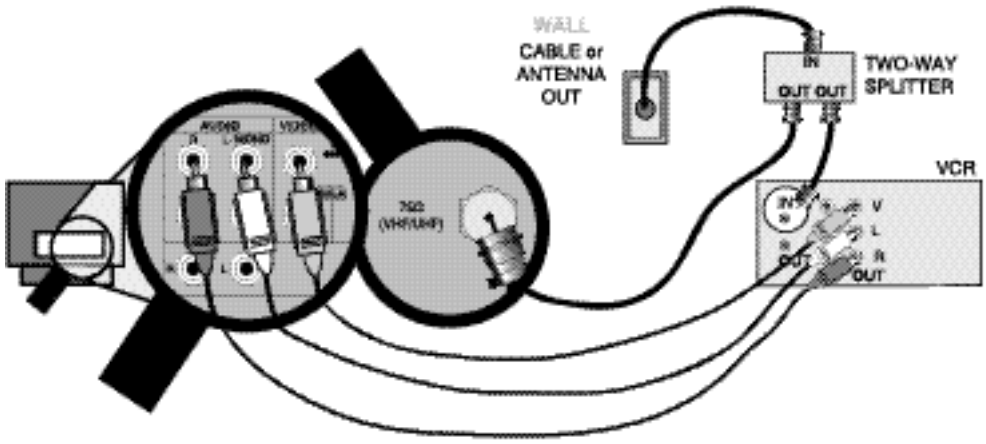
CABLE & VCR CONNECTIONS

There are three basic types of antenna or cable hookups. For VCR hookup only, see the Quick Setup Guide.

1) If you have an antenna, or a cable TV system that does not require you to use a cable box to tune the channels, use **Diagram #1.**
2) If you have a cable system that requires you to use a cable box to access ***all*** channels, use **Diagram #2.**
3) If you have a cable system that requires you to use a cable box to access ***certain*** premium channels, but not regular basic channels, use **Diagram # 3.**

For information on working Picture in Picture (PIP), please see the PIP section on page 28

#1

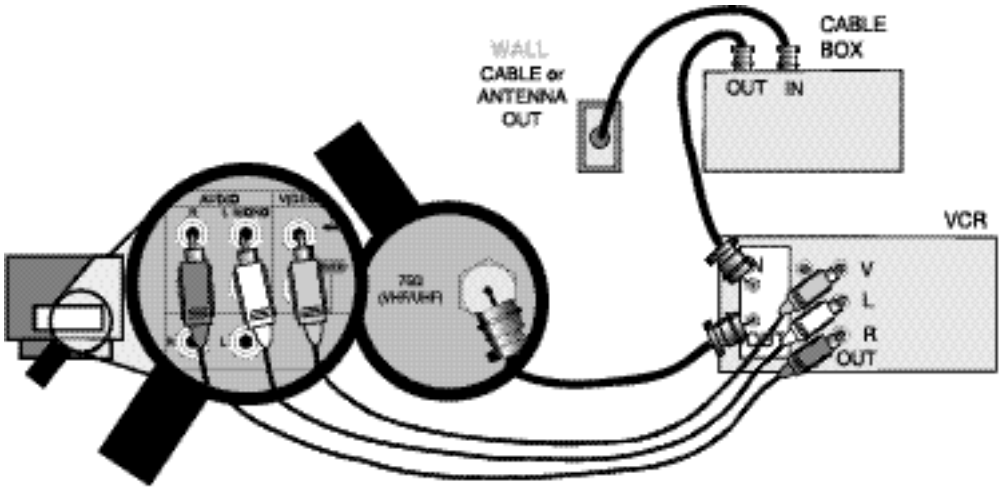


1) Connect cable or antenna RF wire *out* from the wall, *in* to the splitter RF input.
2) Connect RF wire *Out* from the splitter RF output, *in* to the VCR RF input.
3) Connect RF wire *Out* from the splitter RF output, *in* to the TV VHF/UHF input.
4) Connect yellow video cable *out* from the VCR Video output, *in* to the TV Video input jack.
5) Connect white audio cable *out* from the VCR Left Audio output, *in* to the TV Left Audio input jack.
6) Connect red audio cable *out* from the VCR Right Audio output, *in* to the TV Right Audio input jack.

❒ *If your VCR is mono it has only one audio out jack, connect it to TV L/Mono input.*

CABLE & VCR CONNECTIONS CONTINUED

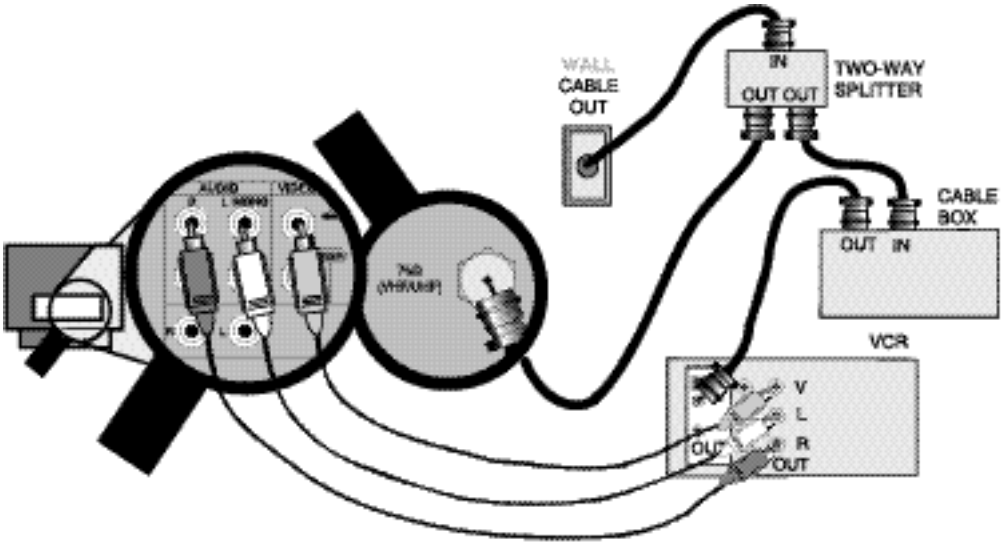
#2



1) Connect the cable RF wire *out* from the wall, *in* to the cable box input.
2) Connect RF wire *Out* from the cable box RF output, *in* to the VCR RF input.
3) Connect RF wire *Out* from the VCR RF output, *in* to the TV VHF/UHF input.
4) Connect yellow video cable *out* from the VCR Video output, *in* to the TV Video input jack.
5) Connect white audio cable *out* from the VCR Left audio output, *in* to the TV Left Audio input jack.
6) Connect red audio cable *out* from the VCR Right Audio output, *in* to the TV Right Audio input jack.

❒ *If your VCR is mono it has only one audio out jack, connect it to TV L/Mono input.*

#3

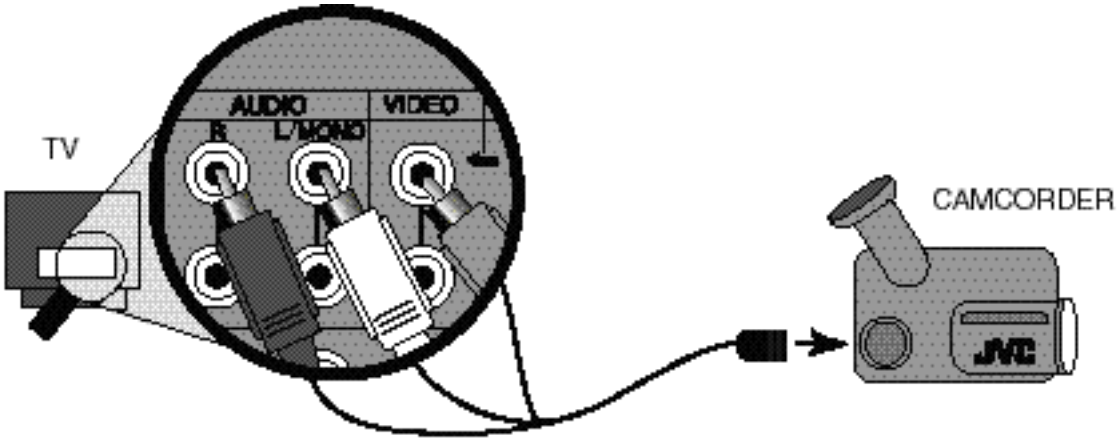


1) Connec
2) Connect RF *Out* from splitter RF output, *in* to cable box RF input.
3) Connect RF wire *Out* from cable box RF output, *in* to VCR RF input.
4) Connect RF wire *Out* from splitter RF output, *in* to TV VHF/UHF input.
5) Connect yellow video cable *out* from VCR Video output, *in* to TV Video input jack.
6) Connect white audio cable *out* from VCR Left audio output, *in* to TV Left Audio input jack.
7) Connect red audio cable *out* from VCR Right Audio output, *in* to TV Right Audio input jack.

❒ *If your VCR is mono it has only one audio out jack, connect it to TV L/Mono input.*

CONNECTING TO A CAMCORDER

Play your home movies back through your TV by connecting your camcorder to the TV's A/V Inputs.



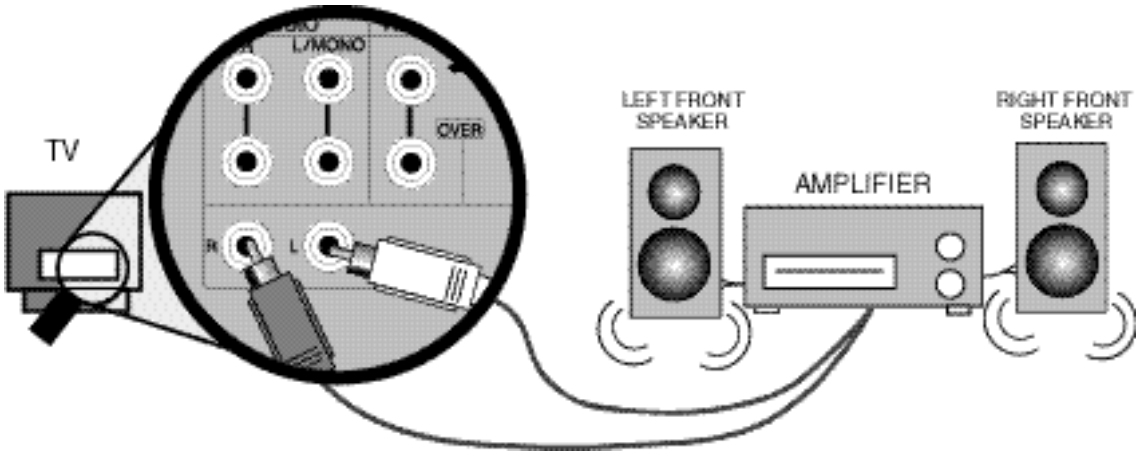
1) White audio cable *out* from camcorder, *in* to TV Left Audio input jack.
2) Yellow video cable *out* from camcorder, *in* to TV Video input jack.
3) If you have a stereo model camcorder, connect the Red Audio cable *out* from the camcorder, *in* to the TV Right Audio input jack.

TO CONNECT TO S-VHS ACCESSORIES:

Keep the audio connections the same as for a non-S-VHS VCR or camcorder (above), and use the special S-VHS cable that came with the VCR or Camcorder.

1) S-VHS Plug *out* from VCR, *in* to TV's S-Video input.

CONNECTING TO AN EXTERNAL AMPLIFIER



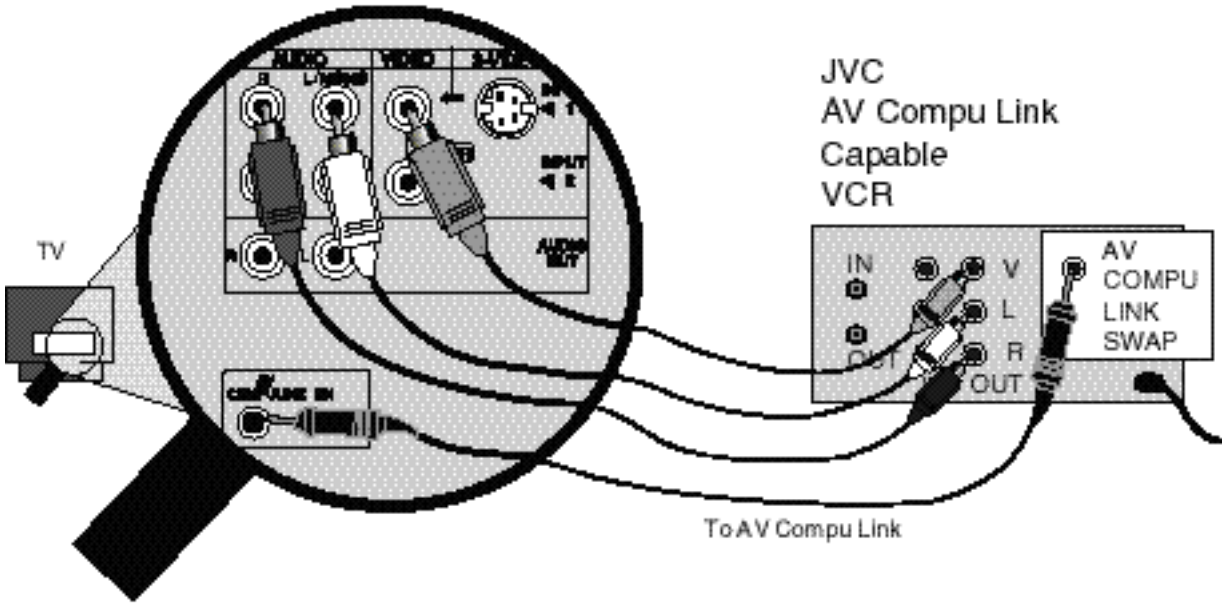
1) White audio cable *out* from TV Left Audio output jack, *in* to Amplifier [Left] input.
2) Red audio cable *out* from TV Right Audio output jack, *in* to Amplifier [Right] input.

NOTE: A) Set the TV Speaker to OFF (page 25), switch the audio output to VARI (page 25), and adjust the sound with the TV remote's VOLUME button.

CONNECTING TO JVC AV COMPU LINK CAPABLE COMPONENTS

AV Compu Link makes playing video tapes totally automatic. Simply insert a pre-recorded tape* into the JVC brand VCR, and the VCR automatically turns on and starts playing. At the same time, the VCR sends an AV Compu Link signal to the television telling it to turn on and switch to the correct video input.

NOTE: *The AV Compu Link cable may be included with the AV Compu Link capable accessory you intend to connect. If it is not, contact an authorized JVC Service Center for Part # EWP 805-012.*



NOTES:

A) The AV Compu Link cable has a male 3.5 mm (mono) mini plug on each end.

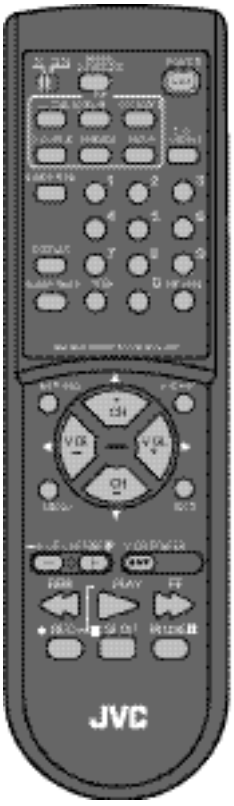
B) If your JVC brand VCR has A Code/B Code Remote Control Switching (see your VCR instructions), using VCR A Code will switch the TV to Video Input 1. If you use Input 1 for Video out from the cable box, use Input 2 here. Using B Code will switch the TV to Video Input 2.

C) To connect a JVC HiFi receiver or amplifier for a completely automated home theater, see the HiFi receiver's instructions for detailed hookup diagrams.

* *In order for the VCR to start playback automatically, the recording tabs must be removed from the VHS tape. If the tab is in place, automatic switching starts when you push the VCR PLAY button.*

** *AV COMPULINK EX is compatible with the following 1998 receivers: RX-664V, RX-665V, RX-774V, RX-884V, RX-1024V, and later receiver models.*

REMOTE CONTROLS



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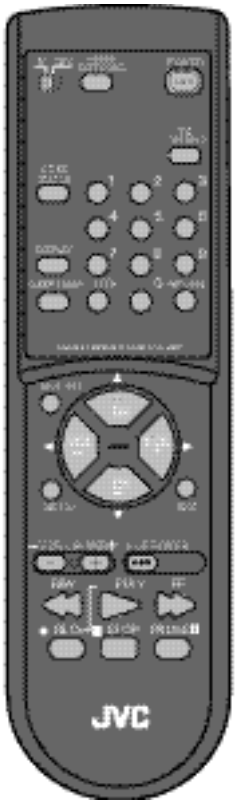
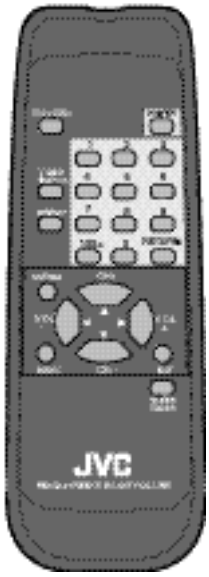


RM-C345
AV-36020 • AV-32020

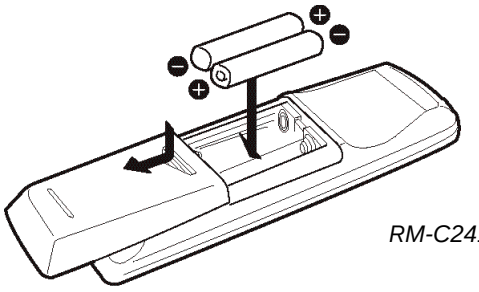


RM-C241
AV-32015

CHANGING THE BATTERIES

Be sure to use only size AA batteries.

1. Push down or raise the latch on the remote's back cover to remove it.
2. Insert the two supplied AA batteries, carefully noting the "+" and "–" markings on the batteries and remote control. To avoid a short circuit, insert "–" end first.
3. Snap the cover back into place.

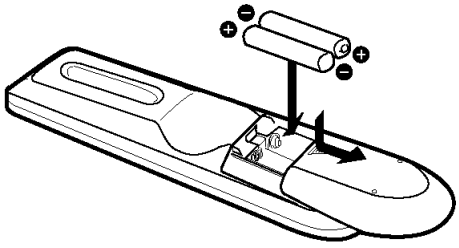


RM-C241

❒ *If the remote control acts erratically, replace the batteries. Typical battery life is usually about six months to one year.*

❒ *We recommend alkaline batteries for a longer battery life.*

RM-C341/RM-C345 USERS NOTE:
When you change the batteries, try to complete the task within three minutes. If it takes longer than 3 minutes, the remote control codes for your VCR and/or Cable box will have to be reset (page 12).



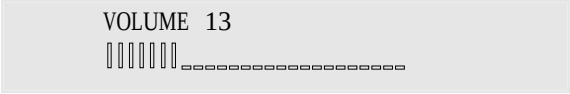
RM-C341 • RM-C345

POWER

- ❒ Make sure that the TV/CATV switch is set to TV. Switch to CATV only to operate a cable box.
- ❒ Press the POWER button on the remote control or the TV front panel. The On Timer lamp will glow red.
- ❒ The first time you turn on the TV, the “Plug In Menu” will appear. You should turn to the Plug In Menu section (page 15) now to learn more about this menu.
- ❒ To turn the power off, press the POWER button again. The On Timer lamp will go out.
- ❒ When the TV is off, the On-Timer lamp remains on while the On/Off Timer function is active, but at a reduced brightness.

ADJUSTING VOLUME

1 Use the VOLUME –/+ buttons (◀▶) on the front panel or remote control. Use the VOLUME – (◀) button to lower the volume. Press the VOLUME + button (▶) raise the volume.



2 Press the MUTING button to instantly turn the volume off to zero. To restore the volume to the previous volume level, simply press the MUTING button again.

CHANGING CHANNELS

1 **10 key direct access.**

Press the numbers on the remote’s 10 key pad. For single-digit channel numbers press 0 then the number. For channels above 100, press the 100+ button plus the 2-digit number.

2 **CHANNEL –/+ button (▲▼).**

Press the CHANNEL –/+ button, it will scan the channels in order.

- ❒ *NOTE: After you operate the Auto Tuner Setup (page 15), all of the blank, or empty, channels will be removed from scanning so that there is no noise or channel snow when you scan, only active channels.*

3 **Return.**

Press and release the RETURN+ button to return to the previous channel. First, select a channel (game #1). Then, select another channel (game #2) with the 10 key pad and push the RETURN+ button to flip directly back and forth.

4 **Return+ .**

Press and hold down the RETURN+ button for three seconds. The message, “RETURN CHANNEL PROGRAMMED !” will appear and you can scan as you wish. Press RETURN+ again and you will go back to the Return+ channel.

To cancel a Return+ channel, press and hold down the RETURN+ button for another three seconds and the message, “RETURN CHANNEL CANCELLED !” appears.

❒ *Pressing a number key or turning the set off will also cancel a Return+ channel.*

SETTING THE CATV & VCR CODES

Many CATV & VCR brands have more than one code. If the first code in the list does not work, try the other codes listed. If your CATV box or your VCR do not respond to any of the codes listed for the manufacturer and search code function, use the remote control for that accessory to operate it.

CABLE BOX OR SATELLITE SETUP FOR RM-C341 AND RM-C345

The remote is programmed with the CATV and Satellite codes for power on and off, 10 key, and channel up and down.

1) Determine the correct code from the "CATV & Satellite Codes" chart below.
2) Slide the 2-Way Mode Selector Switch to CATV.
3) Press and hold down the DISPLAY button.
4) Enter the 3-digit code with the 10 key pad while continuing to hold down the DISPLAY button.
5) Release the DISPLAY button.
6) Confirm the operation of the cable box.

Note : If your cable box or satellite box does not respond to any code on the chart, use the Search Codes Function below.

CATV & Satellite Codes

CABLE BOXES	CODES
ABC	024
Archer	032, 025
Cableview	051, 032
Citizen	022, 051
Curtis	058, 059
Diamond	024, 032, 025
Eagle	029
Eastern	034
GCBrand	032, 051
Gemini	022, 043
General Instrument	065,024, 025, 026, 027, 020, 021, 022, 057, 023
Hamlin	040, 041, 042, 045
Hitachi	049, 024
Jerrold	065, 024, 025, 026, 027, 020, 021, 022, 057, 023
Macom	049, 050, 051, 054
Magnavox	033
Memorex	030
Movietime	032, 051
Oak	039, 037, 048
Panasonic	055, 056, 060
Paragon	063
Philips	028, 029, 030, 052, 053, 031, 069
Pioneer	047, 062
Pulsar	051, 032

CABLE BOXES	CODES
Puser	032
RCA	061
Realistic	032
Regal	058, 064, 040, 041, 042, 045, 068
Regency	034
Rembrandt	037, 032, 051, 038
Samsung	051
Scientific Atlanta	057, 058, 059
SLMark	051, 047
Sprucer	051, 056
Stargate	032, 051
Telecaption	067
Teleview	047, 051
Texscan	044
Tocom	035, 036, 066
Toshiba	050
Unika	032, 025
Universal	022, 032
Videoway	052
Viewstar	029, 030
Zenith	063, 046
Zenith/Drake Satellite	046

DIGITAL SATELLITE SYSTEMS	CODES
Echostar	100
G.E.	106
Gradiente	112
Hitachi	104, 111
HNS (Hughes)	104
Panasonic	105
Philips	102, 103
Primestar	108
RCA	106, 109, 110
Sony	107
Toshiba	101
Uniden	102, 103

Search Codes Function :

1) Slide the 2-Way Mode Selector Switch to CATV.
2) Press the TV POWER and RETURN+ buttons simultaneously for more than three seconds, then release.
3) Press TV POWER and check if the accessory responds.
4) If there was a response, press RETURN+. If there was no response, repeat Step 3 until there is a response. If you repeat Step 3 more than 70 times and there is still no response, use the accessory remote.

VCR SETUP FOR RM-C341 AND RM-C345

The remote is pre-programmed with the VCR codes for power on and power off, play, stop, fast-forward, rewind, and channel up and down.

1) Determine the correct code from the "VCR Codes" chart (below).
2) Slide the 2-Way Mode Selector Switch to TV.
3) Press and hold down the DISPLAY button.
4) Enter the 3-digit code with the 10 key pad while continuing to hold down the DISPLAY button.
5) Release the DISPLAY button.
6) Confirm the operation of the VCR.

❒ When you record a channel, press the PLAY button while continuing to hold down the REC button.

Note : If your VCR does not respond to any code on the chart, use the Search Codes Function below.

VCR Codes

VCRs	CODES
Admiral	035
Aiwa	027, 032
Akai	029, 072, 073, 074
Audio Dynamic	003, 005
Bell & Howell	063, 071
Broksonic	020, 026
Canon	023, 025
CCE	043
Citizen	064
Craig	063, 029, 064
Curtis Mathes	045, 024, 027
Daewoo	043, 059, 024
DBX	003, 004, 005
Dimensia	045
Emerson	043, 026, 077, 061, 025, 042, 020, 076
Fisher	063, 066, 067, 065, 071
Funai	027, 026, 020, 000
GE	033, 045, 024
Go Video	037, 051, 049, 050, 089
Goldstar	064
Gradiente	083, 084, 081, 000, 001
Hitachi	023, 045, 058, 027, 081
Instant Replay	024, 023
Jensen	003
JVC	000, 001, 002, 003, 004, 005
Kenwood	003, 004, 064, 005
LXI	027, 064, 058, 065, 066, 063, 067

VCRs	CODES
Magnavox	031, 023, 024, 086
Marantz	003, 004, 005
Marta	064,
Memorex	024, 067
MGA	038, 040, 047, 048, 041, 042
Minolta	058, 045
Mitsubishi	038, 040, 047, 048, 041, 042, 078, 090
Multitech	047, 027, 062
NEC	003, 004, 005, 000
Olympic	024, 023
Optimus	028, 021, 035, 064
Orion	026, 020
Panasonic	023, 024, 021, 022
Penney	024, 058, 045, 063, 003, 004, 005
Pentax	058, 005, 045
Philco	031, 024, 027, 023, 026, 020, 043
Philips	031, 023, 024, 086
Pioneer	023
Proscan	045, 058, 023,024, 031, 046, 059, 060, 033, 087
Quasar	021, 022, 023, 024
Radio Shack	033, 024, 063, 036, 067, 040, 027
RCA	033, 045, 058, 023, 024, 031, 046, 059, 060, 083, 085, 087
Realistic	024, 063, 036, 067, 040, 027

VCRs	CODES
Samsung	037, 060, 062, 033, 089
Sansui	003, 026, 020, 052
Sanyo	063, 067, 091, 071
Scott	059, 060, 062, 067, 038, 040, 047, 048, 026, 020
Sears	063, 064, 065, 066, 058
Shintom	075
Sharp	035, 036, 080, 088
Signature 2000	027, 035
Singer	075
Sony	028, 029, 030, 053, 054, 055
SV2000	027
Sylvania	031, 023, 024, 027
Symphonic	027, 081
Tashiro	064
Tatung	003, 004, 005
Teac	003, 004, 027, 005
Technics	021, 022, 023, 024
Teknika	024, 027, 070
Toshiba	059, 046, 079
Vector Research	005
Wards	035, 036, 067, 044, 064
Yamaha	063, 003, 004, 005
Zenith	044, 082, 064

Search Codes Function :

1) Slide the 2-Way Mode Selector Switch to TV.
2) Press the VCR POWER and RETURN+ buttons simultaneously for more than three seconds, then release.
3) Press VCR POWER and check if the accessory responds.
4) If there was a response, press RETURN+. If there was no response, repeat Step 3 until there is a response. If you repeat Step 3 more than 80 times and there is still no response, use the accessory remote.

THE ONSCREEN MENUS

THE SYMBOLS USED IN THIS GUIDE

▲▼ Whenever you see up and down arrows is this book, press the MENU UP or MENU DOWN button to:

- Move vertically in the main menu,
- Move through a submenu,
- Move to the next letter, number, or other choice in a submenu, or
- Back up to correct an error, or
- Channel Up or Down

◀▶ Whenever you see left and right arrows, press the MENU LEFT or MENU RIGHT button to:

- Select the highlighted item, or
- Select the options in a submenu, or
- Volume Up or Down

The "Press Button" means you should press that button on the remote control.

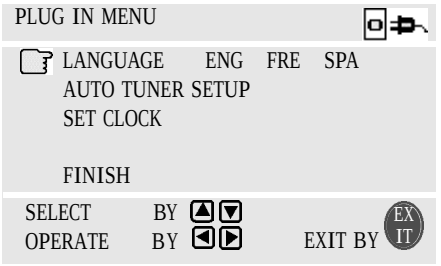
The "Helping Hand" points to the highlighted or selected item in a menu.

To use the Menu, press the MENU button and then use the ▲▼ and ◀▶ buttons to move around the menu as described above. If you continue pressing the MENU button, the display will skip to the next menu screen.

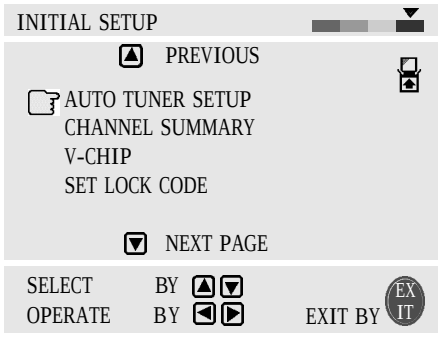
Note1: *The menu screens shown in this book are representations of the menu screens on your set, not exact replications.*

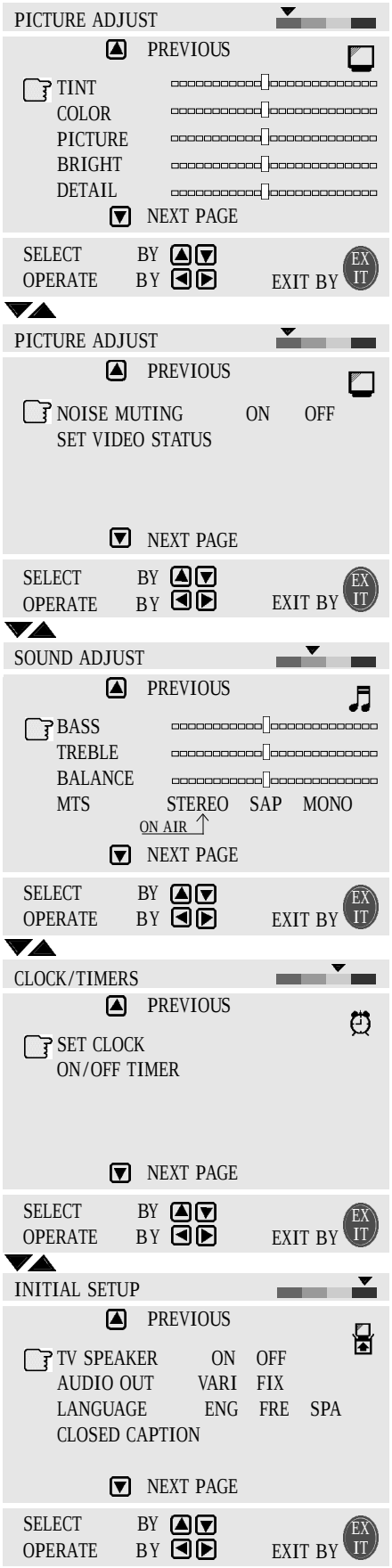
Note2: *The "V-Chip" feature appears only on 50 series models.*

Note3: *"TV Speaker" and "Audio Out" appear on all but AV-32015.*



The "Plug In Menu" only appears the first time the TV is plugged in, or after a power interruption of more than 90 seconds.





PLUG IN MENU

The Plug In Menu comes up automatically when you first turn on the TV after plugging it in. The Plug In Menu sets the default preferences for you for:

- ❒ The Language in which you want the onscreen displays to appear.
- ❒ The Auto Tuner Setup of channels to be included in scan.
- ❒ Set the clock to the proper time so that your timer functions will work.

LANGUAGE

Your JVC television allows you to choose from English, French, or Spanish on-screen menus and displays.

▲▼ To LANGUAGE

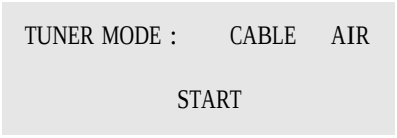
◀▶ To choose the language

AUTO TUNER SETUP

During Auto Tuner Setup, the TV will automatically scan through all available channels and memorize the active ones so that when you scan, you do not pick up weak or noisy channels.

▲▼ To AUTO TUNER SETUP

◀▶ To operate



◀▶ To choose CABLE or AIR

▲▼ To move to START

◀▶ To start programming

Programming takes approximately 1 to 2 minutes

Note: Noise Muting will not work while Auto Tuner Setup is working.

NOTES:

We recommend that you do not exit the Plug In Menu before completing the setup so that your preferences are set right away.

If you do exit, don't panic, you can set these preferences later with the regular menu.

NOTE:

You must have the clock set to operate the On/Off Timer.

SET CLOCK

The Clock is the heart of all timer functions. The clock must be set before the timer functions work.

▲▼ To SET CLOCK
◀▶ To operate

```
TIME          --:--  --

START CLOCK
```

◀▶ To set the hour (AM/PM)
▼ To move to minutes
◀▶ To set the minutes
▼ To move to START CLOCK
when done with settings
◀▶ To start the clock

```
THANK YOU !!
```

CLOCK — ON/OFF TIMER MESSAGE

If you do not set the clock but attempt to use the On/Off Timer, you will get the following message:

```
SET CLOCK

PLEASE SET CLOCK FIRST ! !

TIME          --:--  --

START CLOCK
```

◀▶ To set the hour (AM/PM)
▼ To move to minutes
◀▶ To set the minutes
▼ To move to START CLOCK
when done with settings
◀▶ To start the clock

```
THANK YOU !!
```

FINISH

Once you have set up the items in the Plug In Menu you must select Finish.

▲▼ To FINISH
◀▶ To exit

Note: You can reset the preferences that you set here in the Plug In Menu via the regular JVC Menu system.

CHANNEL SUMMARY

You can add or delete channels from channel scanning. You can also lock out any "unauthorized" viewers from one or up to all 125 channels.

Press the MENU Button
▲▼ To CHANNEL SUMMARY
◀▶ To operate

Note: Noise Muting will not work while you are in the Channel Summary menu.

SCAN

You can manually set channels to scan that were too weak to be picked up during Auto Tuner Setup. Conversely, if a channel was too weak to receive a good picture but was picked up anyway, delete it by removing the √. (If you have not performed the Auto Tuner Setup described on page 15, do so now.)

CH NO.	SCAN	🔒	CH NO.	SCAN	🔒
01			06	√	
02	√		07		
03	√		08		
04	√		09	√	
05	√		10	√	

CHANNEL -/+ to select the channel
▲▼ To the SCAN column
◀▶ To include or delete from scan
EXIT when finished

Note: Channels set to scan will be marked with an √.

Note: Some cable systems experience interference from radio frequencies on Cable Channel 95. If you like, you can delete this channel from scanning by removing the √.

CHANNEL GUARD - LOCK

▲▼ To CHANNEL SUMMARY
◀▶ To operate

CH NO.	SCAN	🔒	CH NO.	SCAN	🔒
01			06	√	
02	√		07		🔒
03	√		08		🔒
04	√		09	√	
05	√		10	√	

▲▼ To the Lock column
The access code zero (0) to lock or unlock that channel

Use the CHANNEL -/+ button to go to any other channel you want to lock

EXIT when finished

CHANNEL GUARD AND V-CHIP MESSAGE:

This message appears when a viewer attempts to watch a guarded channel or a channel blocked by V-Chip:

THIS CHANNEL IS LOCKED BY
CHANNEL GUARD.
PLEASE ENTER LOCK CODE BY
10 KEY PAD TO UNLOCK IT.
NO. – – – –

To watch a channel you have locked, enter the lock code using the 10 key pad. If the wrong lock code is entered, this message will appear:

INVALID LOCK CODE !

Note: See "Set Lock Code", for more information.

NOTES:

Initial Setup Menu items:

- *Auto Tuner Setup, and*
- *Language are described in detail in the Plug In Menu section*

In the Channel Summary:

To move up and down a column (e.g. from channel to channel) use the CHANNEL -/+ button

To move from item to item (e.g. from channel number to scan to lock) use the MENU UP/DOWN buttons.

Continued above…

NOTE:

V-Chip is available on the following models only:

- *AV-36050*
- *AV-32050*
- *AV-27050*

The V-Chip section is 4 pages long.

If you have another model, you can skip to page 22 to the Picture Adjust Section.

V-CHIP

Your TV is equipped with V-Chip Technology which enables TV Parental Guideline and Movie (MPAA) Guideline controls. V-Chip technology allows you to program your TV to receive, or not receive, programs based on content according to the guidelines.

When a viewer attempts to watch a blocked channel this message appears:

THIS CHANNEL IS LOCKED BY
CHANNEL GUARD.
PLEASE ENTER LOCK CODE BY
10 KEY PAD TO UNLOCK IT.
NO. – – – –

To watch a channel you have locked, enter the lock code using the 10 key pad.

To set up the TV Parental Guideline Ratings…

Press the MENU button
▲▼ To V-CHIP
◀▶ To operate (Lock icon appears)
Press ZERO to access V-Chip menu

V-CHIP ON OFF
SET TV RATINGS
SET MOVIE RATINGS
UNRATED VIEW BLOCK

FINISH

◀▶ To turn V-Chip ON or OFF
▲▼ To move to SET TV RATINGS

	TV MA	TV 14	TV PG	TV G	TV Y7	TV Y
	—	—	—	—	—	—
V/FV	—	—	—		—	
S	—	—	—			
L	—	—	—			
D		—	—			

VIEWING GUIDELINES

- ❒ V/FV is for VIOLENCE / FANTASY VIOLENCE
- ❒ S stands for SEXUAL CONTENT
- ❒ L stands for strong LANGUAGE
- ❒ D stands for suggestive DIALOG

U.S. PARENTAL RATING SYSTEMS

Programs with the following Ratings are appropriate for Children.

- ❒ **TV Y is Appropriate for All Children.** Programs are created for very young viewers and should be suitable for all ages, including children ages 2 - 6.
- ❒ **TV Y7 is for Older Children.** Most parents would find such programs suitable for children 7 and above. There may exist some mild fantasy violence or comedic violence. Children should be able to discern reality from fantasy.

Programs with the following Ratings are appropriate for the entire audience.

- ❒ **TV G stands for General Audience.** Most parents would find these programs suitable for all age groups. They contain little or no violence, no strong language, and little or no sexual dialog or situations.
- ❒ **TV PG Parental Guidance Suggested.** May contain some, but not much, strong language, limited violence, and some suggestive sexual dialog or situations. It is recommended that parents watch these programs first, or with their children.
- ❒ **TV 14 Parents Strongly Cautioned.** Programs contain some material that may be unsuitable for children under the age of 14 including possible intense violence, sexual situations, strong coarse language, or intensely suggestive dialog. Parents are cautioned against unattended viewing by children under 14.
- ❒ **TV MA Mature Audiences Only.** These programs are specifically for adults and may be unsuitable for anyone under 17 years of age. TV MA programs may have extensive V, S, L, or D.

Directions to Block Viewing:
Line up the cursor in the column (TV PG, TV G, etc.) with the content row (V/FV, S, etc.) and press the ▲or▼ to move the cursor to the correct location, and press ◀ or ▶ to turn the locking feature on or off. An item is locked if the icon 🔒 appears instead of a "—".

An example. To block viewers under 14 from all shows:

Move the cursor to the top row of that column and add a lock icon. Once you've put a lock on the top row, everything in that column is automatically locked.

▲▼ To the TV 14 Column

◀▶ To turn on the lock

	TV MA	TV 14	TV PG	TV G	TV 17	TV Y
	—	🔒	—	—	—	—
V/FV	—	🔒	—		—	
S	—	🔒	—			
L	—	🔒	—			
D		🔒	—			

Press EXIT when done

Note: If you want to change the setup, move the cursor to the top column and change to "—" and then you can select individual categories to block.

Special Notes about V-Chip:

1) Some programs do not have a rating signal, therefore, even if you setup V-Chip, those programs will not be locked. Parents are cautioned to preview the contents of these programs or movies.

2) Canadian Viewers. V-Chip function is based on specifications for the US and therefore may not work properly in Canada.

To set up Movie Ratings…

Press the MENU button

▲▼ To V-CHIP

◀▶ To operate (Lock icon 🔒 appears)

Press ZERO to access V-Chip setup options

▲▼ To SET MOVIE RATINGS

◀▶ To enter movies menu

X	NC-17	R	PG-13	PG	G	NR
—	—	—	—	—	—	—

❒ **NR - Not Rated.**
This is a film that has no rating. In many cases these films were imported from other countries. Other NR films may be from amateur producers who didn't intend to have their film widely released.
NR (Not Rated) Programming may contain all types of programming including chhildren's programming, foreign programs, or adult material.

❒ **G – General Audience.**
In the opinion of the review board, these films contain nothing in the way of sexual content, violence, or language that would be unsuitable for audiences of any age.

❒ **PG – Parental Guidance.**
Parental Guideance means the movie may contain some contents such as mild violence, some brief nudity, and strong language. The contents are not deemed intense.

❒ **PG-13 – Parents Strongly Cautioned.**
For parents with children under 13, they are cautioned that the content of movies with this rating is more explicit in sexual, language, and violence content than PG.

- **R Restricted.**
  These films contain material that is explicit in nature and is not recommended for unsupervised children under the age of 17.
- **NC-17 No One Under 17.**
  These movies are considered what most parents would feel is too adult for their children to view and can consist of strong language, nudity, violence, and suggestive and explicit subject matters.
- **X No One under 18.**
  Innappropriate for anyone under 18.

Directions to Block Movie Viewing:

In order to block viewers from any or all of these sorts of contents, press the ▲or▼to move the cursor to the correct location, and press ◀ or ▶ to turn the locking feature on or off. An item is locked if the icon appears instead of a "—".

To block viewers under X and NC-17 rated from shows:

▲▼ To the X Column
◀▶ To turn on the lock

X	NC-17	R	PG-13	PG	G	NR
🔒	—	—	—	—	—	—

▲▼ To the NC-17 Column
◀▶ To turn on the lock

X	NC-17	R	PG-13	PG	G	NR
🔒	🔒	—	—	—	—	—

Press EXIT when done

Notes About Unrated Programs:

Unrated programming refers to any programming that does not contain a rating signal. Programming on television stations which do not broadcast ratings signal will be in the "Unrated Programming" category.

Examples of Unrated programs:

Emergency Bulletins
Locally originated programming
News
Political Programs
Public Service Announcements
Religious Programs
Sports
Weather
Some Commercials

Note: TV programs or movies that do not have rating signal will be blocked if the Unrated Category is set to LOCK.

Directions to Block Unrated Programs:

You can block programs that are not rated.

Press the MENU button
▲▼ To V-CHIP
◀▶ To operate
Press ZERO to access V-Chip setup options
▲▼ To UNRATED

UNRATED	VIEW	BLOCK

◀▶ To View or Block
Press EXIT when done

Special Notes about V-Chip:

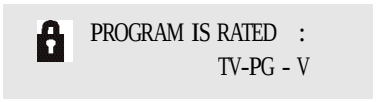
1) In order for V-Chip settings to take effect, **V-Chip settings must be turned ON in the V-Chip menu (page 18).**

2) You can automatically unblock all of your restrictions by turning V-Chip settings OFF in the V-Chip menu (page 18).

3) You can always unblock a restriction by re-entering the V-Chip menu and removing the lock icon.

Accessing V-Chip Information:

To access Rating information about a certain program, press the V-CHIP button while viewing that program, this appears:

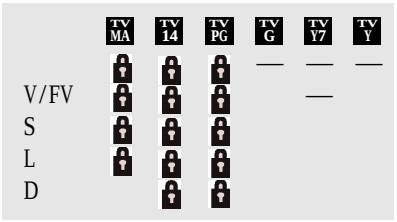


If you decide you want to block this category of viewing, press "0" while the above screen is visible, and all programs from that category will be locked.

Example 1:

If you want to set your V-Chip settings to block *all* programming above TV PG:

Press 0 (zero) when TV-PG is displayed

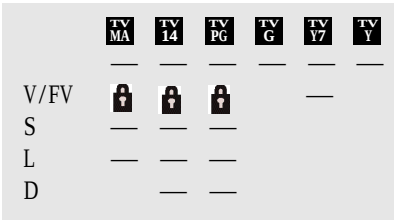


All Programming above TV PG will be blocked!

Example 2:

If you want to set your V-Chip settings to block all programming above a current setting such as TV PG-V (with violence):

Press 0 (zero) when TV-PG - V is displayed



All Programming above TV PG with Violence will be blocked!

Note:
For Childrens programming you can block TV-Y and Y programs by Pressing “0” when Y is displayed during a program. Programming for audiences other than children’s audiences will not be affected.

SET LOCK CODE

The Lock Code locks and unlocks Channel Guard and V-Chip settings. Write this four digit number down and keep it safe!

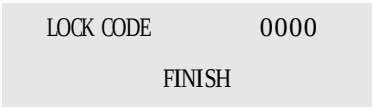
Press the MENU button

▲▼ To SET LOCK CODE

◀▶ To operate

The padlock icon appears

ZERO (*the access code is zero)*



◀▶ To choose the number

▲▼ To move to the next place

Continue to follow these directions for all four numbers

▲▼ To FINISH

◀▶ To save settings and exit

Note: If you forget the Lock Code you can set another one this same way.

Note: After a power interruption you must reset the lock code.

NOTES:

To exit the Picture Adjust menu at any time press the EXIT button.

TINT

Adjust the levels of red and green.

- Press the MENU Button
- ▲▼ To TINT
- ▶ To accentuate green
- ◀ To accentuate red
- ▲▼ To move to the next

COLOR

Adjust both the vividness and subtlety of the color.

- Press the MENU Button
- ▲▼ To COLOR
- ▶ To make colors more vivid
- ◀ To subdue colors
- ▲▼ To move to the next

PICTURE

Picture allows you to adjust the picture's range of black and white.

- Press the MENU Button
- ▲▼ To PICTURE
- ▶ To increase contrast
- ◀ To decrease contrast
- ▲▼ To move to the next

BRIGHT

Adjust the degree of light and dark.

- Press the MENU Button
- ▲▼ To BRIGHT
- ▶ To lighten the picture
- ◀ To darken the picture
- ▲▼ To move to the next

DETAIL

Adjust the level of detail in the picture.

- Press the MENU Button
- ▲▼ To DETAIL
- ▶ To make the picture sharper
- ◀ To make the picture smoother
- ▲▼ To move to the next

NOISE MUTING

Inserts a blue screen and eliminates noise from channels that are not broadcasting or are too weak.

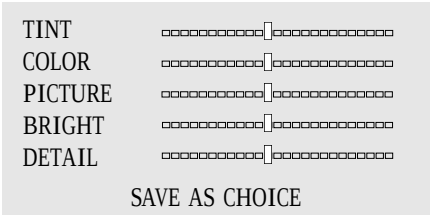
- Press the MENU Button
- ▲▼ To NOISE MUTING
- ◀▶ To turn ON/OFF

Note: Noise Muting will not work when you operate the Auto Tuner Setup or Channel Summary.

SET VIDEO STATUS

Save a set of Picture Settings and access later as "Choice".

- Press the MENU Button
- ▲▼ To SET VIDEO STATUS
- ◀▶ To operate



- ◀▶ To operate the TINT option
- ▲▼ To move to the next option

Repeat the above steps to set each option.

- ▲▼ To SAVE AS CHOICE
- ◀▶ To save settings and exit

Note: Access your "Choice" settings by pressing the VIDEO STATUS button on the remote control.

BASS

The Bass level adjustment feature allows you to raise or lower the level of lower frequencies in the TV's sound.

Press the MENU Button
▲▼ To BASS
▶ To emphasize bass
◀ To reduce bass
▲▼ To move to next

TREBLE

The Treble level adjustment feature allows you to raise or lower the level of higher frequencies in the TV's sound.

Press the MENU Button
▲▼ To TREBLE
▶ To increase treble
◀ To decrease treble
▲▼ To move to next

BALANCE

The Balance adjustment feature allows you to center the TV's sound to your needs.

Press the MENU Button
▲▼ To BALANCE
▶ To shift the speaker balance to the right
◀ To shift the speaker balance to the left
▲▼ To move to next

MTS (Multi-Channel Television Sound)

MTS technology gives you a choice among stereo, mono, and Second Audio Programs (SAP).

Press the MENU Button
▲▼ To MTS
◀▶ Select the mode

(The ON AIR arrow tells you if the current signal contains Stereo or SAP)

Note: Keep the TV in STEREO mode to get the fullest sound quality.

Note: SAP will allow you to hear an alternative soundtrack, if available.

Note: Choose MONO to reduce excess noise in a program or channel.

NOTE:

MTS has no effect on normal sound broadcasts.

Some Sound Advice

You can tell if a program is broadcast in stereo by the position of the ON AIR arrow in the MTS menu. Unfortunately, it is common for some cable companies to squash the transmission of stereo programs to mono because they only have mono equipment. If your TV is connected to a cable system, the sound is at the mercy of that cable company — if they broadcast in mono, you receive mono sound regardless of the original stereo programming.

Fortunately, most programs that are broadcast in stereo are aired on the major television networks. If you connect your TV to an antenna instead of cable, and set the Tuner Mode in the Auto Tuner Setup to "Air" instead of "Cable," you will be able to pick up stereo broadcasts in stereo.

ON/OFF TIMER

YOU tell the TV to turn on and off. Use it as an alarm to wake up, as a program reminder, or to simulate that you're home when you're out of the house.

Press the MENU Button
▲▼ To ON/OFF TIMER
◀▶ To operate

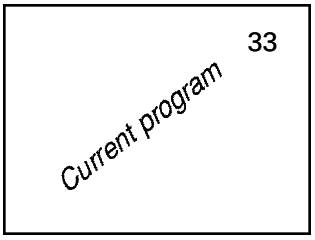
ON/OFF TIMER		
ON TIME	7 : 00	PM
OFF TIME	10 : 00	PM
CHANNEL		02
MODE	ONCE	EVERYDAY
ON/OFF TIMER		YES NO
FINISH		

◀▶ To set the hour (AM/PM) you want the TV to turn on
▼ To move to minutes
◀▶ To set the minutes
▼ To accept ON TIME and to move to OFF TIME (set time again)
▼ To move to CHANNEL
◀▶ To select channel
▼ To move to MODE
◀▶ Choose ONCE or EVERYDAY
▼ To YES NO
◀▶ Choose YES for on, NO for off
▼ To FINISH
◀▶ To save settings

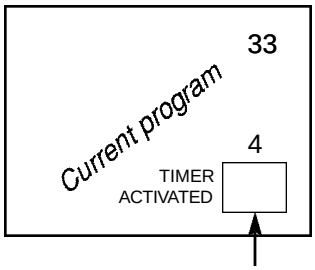
Note: In order for ON/OFF Timer to work, the clock must be set. After a power interruption the clock will be cancelled.

Note: ON/OFF Timer cannot be set to locked or guarded channels.

Note: A Timer Preview window (50 series only) will appear in the PIP, lower right corner of your screen, 7 seconds before the Timer changes the current channel to the timed program channel.

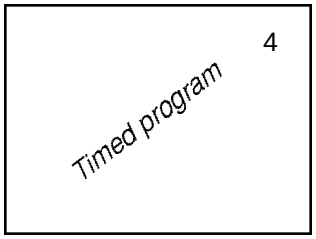


Timer activates



(Preview of ON/OFF Timer program)

7 seconds later…



Timer activates

TV SPEAKER

You can listen to the TV speakers, or if your set is connected to a stereo, turn them off to listen to the stereo's speakers.

Press the MENU Button

▲▼ To TV SPEAKER

◀▶ To turn the speaker ON or OFF

TV SPEAKER ON OFF

EXIT when finished

Note: TV Speaker will be cancelled after a power interruption.

Note: Before you set TV Speaker from Off to On, **make certain that the volume level is low!** If the volume is high, the sound will be extremely loud when you turn it on.

AUDIO OUT

Select fixed level or variable level audio output signals.

Press the MENU Button

▲▼ To AUDIO OUT

AUDIO OUT VARI FIX

◀▶ To VARI or FIX

VARI: Adjust the volume of the external speaker by using the TV's VOLUME +/– button or remote control.

FIX: Adjust the volume of the external speaker with the audio device controls.

Note: When using external amplifiers and speakers, shut off the TV Speakers (above).

CLOSED CAPTION

If they are included in a program, you can view closed captions or text information.

Press the MENU button

▲▼ To CLOSED CAPTION

◀▶ To operate

MODE : OFF

CAPTION : CC1 CC2 CC3 CC4
TEXT : T1 T2 T3 T4

FINISH

◀▶ To select CAPTION, TEXT or OFF

▲▼ To CAPTION or TEXT

◀▶ To select a caption (CC1 to CC4) or text channel (T1 to T4)

▼ To accept that selection and move to FINISH

◀▶ To exit and save settings

Note: If you turn the Mode to Caption or Text, that mode will automatically begin once you exit and save the settings.

Note: Captions are usually found on CC1 and text on T1. The other caption and text channels are workable but are for future purposes.

Note: If a black box covers half of the screen, Text Mode is on. Select OFF to turn it off.

Note: Closed captioning may not correctly operate when the signal received is weak or when you are playing a video tape.

NOTE:

Regarding the operation of the Language feature, refer to page 15.

TV Speaker and Audio Out are available on models:

- *AV-36050*
- *AV-36020*
- *AV-32050*
- *AV-32020*
- *AV-27050*

MENU

The MENU button allows you to access the onscreen menu system. Another complete discussion of these buttons and the menu system is located on page 14.

Once you press the menu button, the CHANNEL –/+ (▲▼) and VOLUME –/+ (◀▶) buttons work to operate the menu system.

• Press (▲▼) to move up and down in the menu system.

• Press (◀▶) to operate a feature in the menu system.

EXIT

The EXIT button lets you leave the menu system or turn off PIP when you press it.

DISPLAY

The onscreen display shows the current status of timers and inputs.

DISPLAY

07	
NOW	12:20 PM
SLEEP TIMER	OFF
ON/OFF TIMER	EVERYDAY
ON TIME	7:00 PM
OFF TIME	10:00 PM

- ❑ The channel or AV input (Ch. 07)
- ❑ Current time (12:20 PM)
- ❑ Sleep Timer minutes remaining (Off)
- ❑ On/Off Timer status (Everyday, on at 7:00 PM, off at 10:00 PM)

Note: Each press of the DISPLAY button changes the display mode:

DISPLAY → TIME → CHANNEL → OFF

If you select time or channel, the time or channel (or video input) will remain on the screen.

VIDEO STATUS

The VIDEO STATUS button lets you select the "Choice" settings of the Set Video Status menu, or reset to factory settings.

"Standard" resets the picture settings to factory standard levels.

"Choice" consists of the settings that you saved in the Set Video Status menu, page 22.

"Theater" for a film-like look to video.

VIDEO STATUS

CHOICE → THEATER → STANDARD

SLEEP TIMER

The Sleep Timer will turn off the TV for you in case you fall asleep. Program it to work in intervals of 15 minutes up to 180 minutes.

SLEEP TIMER

0 15 30 45 60 75 90 105 120 135 150 165 180

SLEEP TIMER MESSAGE:

20 seconds prior to the automatic shut-off, this message will appear:

GOOD NIGHT ! !
PUSH SLEEP TIMER BUTTON
TO EXTEND.

You then have 20 seconds to press the Sleep Timer button to delay turn off for another 15 minutes.

HYPER SURROUND

Create a deep, 3-dimensional sound effect by channeling the sound through the TV's front firing speakers.

HYPER SURROUND

HYPER SURROUND ON OFF

TV/VIDEO

TV/VIDEO controls the TV's input mode.

TV/VIDEO

TV → VIDEO-1 → VIDEO-2 →

Model AV-32015 has one Video input.

→ TV → VIDEO →

100 +

The 100+ button lets you access all channels above Channel 99.

To move to Channel 124:

100+

2 (two)

4 (four)

VCR BUTTONS

RM-C341 and RM-C345 ONLY. *This remote will control your VCR. You can play, rewind and fast-forward, record, pause, stop, move channel up and down, and power on and off.*

Note: This remote is preset with the code 000 to control a JVC VCR. For any other brand, you must set up the manufacturer's code (page 12.)

MUTING

The MUTING button turns the sound off completely when you press it. Press it again to restore the volume to the previous level.

RETURN+

There are two kinds of Return…

Return+ — Set a "Return Channel" to return to after scanning with CHANNEL -/+.

RETURN+ and hold for 3 seconds

RETURN CHANNEL PROGRAMMED !

Scan with CHANNEL -/+

RETURN+

Note: To cancel a Return channel, press and hold Return+ for another 3 seconds until "RETURN CHANNEL CANCELLED!" appears.

Return — Return to the last channel viewed after moving to another channel via the 10 key pad.

RETURN+

Move to another channel with the 10 key pad.

RETURN+

Note: When PIP is on, the RETURN+ button function affects only the main screen.

NUMBER BUTTONS
10 KEY PAD

Change channels with the 10 key pad.

For example, to move to Channel 7:

0 (zero)

7 (seven)

NOTES :

Hyper Surround and VCR buttons are available on the following models only:

- *AV-36050*
- *AV-36020*
- *AV-32050*
- *AV-32020*
- *AV-27050*

You can find another discussion of Return and Return+ on page 11.

NOTES:

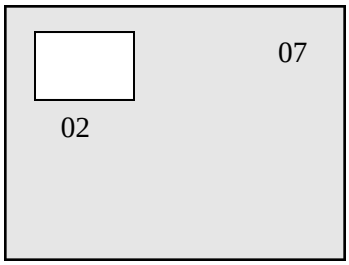
Picture in Picture is available on the following models only:

- *AV-36050*
- *AV-32050*
- *AV-27050*

ON/MOVE (Picture in Picture)

PIP allows you to view two pictures simultaneously.

(PIP) ON/MOVE



EXIT to turn PIP off

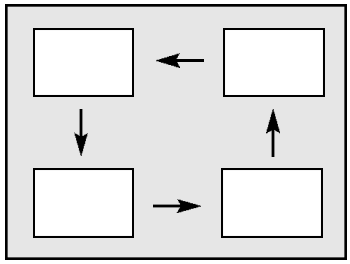
Note: The PIP channel and main screen channel will appear in the display momentarily right after you turn on PIP. You can leave them up permanently by pressing DISPLAY until you reach the mode.

Note: The PIP Screen is 1/9 of the regular screen size.

Once PIP is turned on, the ON/MOVE button operates the Move feature.

You can move the PIP window to any of the TV's four corners.

ON/MOVE



Note: Each press of the On/MOVE button will shift the PIP window one position.

Note: When the PIP screen has no signal, the PIP window will be blue.

FREEZE

You can freeze the picture in the main screen into the PIP window.

FREEZE

Note: When the PIP is off, pressing FREEZE takes a snapshot of the main screen and puts it into the PIP window… great for catching those mail order addresses.

Note: When the PIP is on FREEZE stops the PIP picture.

SWAP

You can swap the PIP picture and the main picture.

SWAP

CHANNEL –/+ For PIP

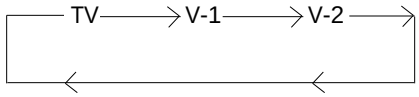
Change the channel in the PIP window.

CH –/+

SOURCE

You can select the source for the PIP window.

SOURCE



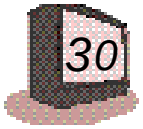
PIP NOTES

50 Series models have 2 Tuner PIP and can see two signals at once. This means you can view two channels at the same time.

In order for PIP to work, the TV must be set to "TV mode".

If you use your VCR to play a video, the VCR will automatically switch your input to VCR mode. In VCR mode, the TV sees only one signal, that of the VCR. In order to view PIP, you then need to press the TV/VCR button on your VCR remote to switch back to TV mode.

PROBLEMS	CHECK
No power	• See if the power cord became unplugged. • Perhaps you have experienced a blown circuit breaker or fuse or a power outage.
No picture or sound	• The antenna could be disconnected. • The Input mode (TV or video) could not be set properly, refer to page 27. • The tuner mode (in the menu selection) could be set improperly, refer to page 15. • The station may be having difficulties, check to see if other channels are operating normally.
Remote control is not operating	• Check that the batteries are still working and properly installed. • Make sure there are no objects blocking a clear path from the remote to the TV. • Check that the 2-way mode selector switch is in the proper position — set to TV to view television.
You cannot select a certain channel	• Maybe you are too far from the TV, you must be within 23 feet (or 7 meters). • Make sure the channels are programmed. See Channel Summary, page 17. • Perhaps the channel is locked, select it with the 10 key pad and follow instructions.
Power turns off	• Perhaps the On/Off Timer is set, press the power button, check page 24. • The power was interrupted or the power cord unplugged. • The Sleep Timer may be set, see page 26.
The clock is wrong	• The clock needs to be reset. See page 16.
PICTURE	**CHECK**
Poor color quality	• Tint and color may be improperly adjusted. Check page 22. • Video Status mode may be set to an inappropriate setting. Check page 22.
Lines or streaks across the screen	• There could be interference from another energy consuming appliance, such as a computer, another TV or VCR. Move any other such appliances farther away from the TV.
Spotted picture	• There could be interference from a running high wattage appliance such as a hair-dryer, vacuum cleaner, or neon sign. You will have to move the antenna away from the source of the interference or change it to a coaxial cable which is less prone to interference.
Double picture (Ghosts)	• A building or airplane can reflect the original signal producing a second, delayed one. Adjust the antenna position.
Snowy picture/ Image noise	• The antenna may be damaged, disconnected or turned. Check the antenna connection, pages 6 to 7. If it is damaged, you will have to replace it.
Screen is 80% black	• Closed Caption Text Mode is on.
SOUND	**CHECK**
Bilingual or stereo programs can't be heard	• Make sure the MTS mode is properly set. Refer to page 23 for details on setting MTS Modes.
No sound from TV speakers at all	• TV Speakers may be turned off in the menu, see page 25.
NOT A PROBLEM	**DON'T WORRY ABOUT THIS, IT'S NORMAL**
Static electricity	• It is normal to feel a surge of static electricity if you brush over or touch the screen.
Occasional crackling sounds	• It is normal for the TV to emit crackling sounds when turned on or off. Unless the sound or picture become abnormal, this is fine.



LIMITED WARRANTY

JVC

For Canadian model televisions, see separate sheets for Warranty/Garantie and JVC Authorized Service Centers in Canada.

JVC COMPANY OF AMERICA warrants this product and all parts thereof, except as set forth below TO THE ORIGINAL PURCHASER AT RETAIL to be FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIP from the date of original purchase for the period as shown below (the "Warranty Period"). The picture tube is covered for two years.

Model No.	Serial No.	Parts	Labor
		1 YEAR	1 YEAR

This limited warranty is valid only in the fifty (50) United States, The District of Columbia and the Commonwealth of Puerto Rico.

JVC WILL:

If this product is found to be defective, repair or replace defective parts at no charge to the original owner. Such repairs will be made during regular business hours only at JVC authorized service centers. All parts repaired or replaced are warrantied for the remainder of this Warranty Period only. All products and parts should be brought to an authorized service center on a carry-in basis except for those models with a screen size larger than 25 inches which are covered on an in-home basis.

YOU MUST:

• Return your products to a JVC authorized service center with a copy of your bill of sale. For the authorized JVC service center nearest you, call toll free (800) 537-5722.

• If service is not locally available, box the product carefully, preferably in its original container, and ship it, insured, to the nearest authorized service center with a copy of the bill of sale and a letter of explanation as to the problem. Call the toll free number above for the address.

WHAT IS NOT COVERED:

1) Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to render such service, or if connected to any attachment not provided with the products, or if the model or serial number has been altered, tampered with, or removed;
2) Initial installation, removal for repair, and reinstallation after repair is not covered;
3) Operational adjustments covered in the Owner's manual, normal maintenance, video and audio head cleaning;
4) Damage that occurs during shipment, due to an act of God, or of consequence to cosmetic changes;
5) Signal reception problems and failures due to line power surges;
6) Video Pick-up Tubes/CCD Image Sensor, Cartridge, Stylus (Needle) are covered for 90 days from the date of purchase;
7) Accessories, and;
8) Batteries (except for rechargeable batteries which are covered for 90 days from date of purchase.)

There are no express warranties except as listed above.

THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILTY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN.

JVC SHALL NOT BE LIABLE FOR THE LOSS OF USE OF THIS PRODUCT, INCONVENIENCE, LOSS OR ANY OTHER DAMAGES, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion of incidental or consequential damages or limitations on how long the warranty lasts, so these may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary state to state.

If you have questions concerning your JVC product, please contact our Customer Relations Department:

JVC COMPANY OF AMERICA
DIVISION OF JVC AMERICAS CORP.
1700 Valley Road
Wayne, New Jersey 07470

Refurbished products carry a separate warranty. This warranty does not apply for details of refurbished product warranty. Please refer to the refurbished product warranty information packaged with each refurbished product.

QUALITY JVC SERVICE

HOW TO LOCATE YOUR JVC SERVICE CENTER

TOLL FREE: 1 (800) 537-5722
http://www.jvcservice.com

Dear Customer;
In order to receive the most satisfaction from your purchase, read the instruction booklet before operating the unit. In the event that repair is necessary, or for the address nearest your location, please refer to the factory service center list below or within the Continental United States, call 1-800-537-5722 for your authorized servicer. Remember to retain your Bill of Sale for Warranty Service.

— JVC

JVC SERVICE & ENGINEERING COMPANY OF AMERICA
DIVISION OF JVC AMERICAS CORP.

FACTORY SERVICE CENTER LOCATIONS

Dear customer;

In order to receive the most satisfaction from your purchase, read this guide before operating the unit, and before calling for service make sure you check the Troubleshooting pages at the end of this book. In the event that repair is necessary, or for the address nearest you, please refer to the factory service center list below, or within the continental United States, call the toll free number above for an authorized service center. Remember to retain your bill of sale for warranty service.

107 Little Falls Road
Fairfield, NJ 07004-2105
(973) 808-9279

1500 Lakes Parkway
Lawrenceville, GA 30243-5857
(404) 339-2522

705 Enterprise Street
Aurora, IL 60504-8149
(630) 851-7855

5665 Corporate Avenue
Cypress, CA 90630-0024
(714) 229-8011

2969 Mapunapuna Place
Honolulu, HA 96819-2040
(808) 833-5828

10700 Hammerly Suite 110
Houston, TX 77043
(713) 935-9331

13 Cummings Park
Woburn, MA 01801
(781) 376-9100

8192 State Road 84
Davie, FL 33324
(954) 472-1960

890 Dubuque Avenue
South San Francisco, CA 94080-1804
(650) 871-2666

Sophisticated electronic products may require occasional service. Just as quality is a keyword in the engineering and production of the wide array of JVC products, service is key to maintaining the high level of performance for which JVC is world famous. The JVC service and engineering organization stands behind our products.

NATIONAL HEADQUARTERS
JVC SERVICE & ENGINEERING COMPANY OF AMERICA
DIVISION OF JVC AMERICAS CORP.
1700 Valley Road
Wayne, New Jersey 07470

IF YOU SHIP THE PRODUCT

Pack your JVC unit in the original carton or one of equivalent size and strength. Enclose, with the unit, a letter stating the problem or symptom that exists and also a copy of the receipt or bill of sale you received when you purchased your JVC unit. Print your home return address on the outside and inside of the carton, Send to the appropriate JVC Factory Service Center as listed above.

Don't service it yourself.

CAUTION

To prevent electrical shock, do not open the cabinet. No user serviceable parts inside. Refer to qualified service personnel.

ACCESSORIES

To purchase accessories for your JVC product, you may contact your local JVC Dealer. Or from the 48 Continental United States call toll free : 1 (800) 882-2345

S P E C I F I C A T I O N S

MODEL	AV-36050	AV-32050	AV-27050	AV-36020	AV-32020	AV-32015
Type	Color Television					
Reception Format	NTSC system, BTSC system (Multichannel Sound)					
Reception Range	VHF 2 to 13, UHF 14 to 69 Sub Mid, Mid, Super, Hyper and Ultra bands (181 channel frequency synthesizer system)					
Power Source	AC 120V, 60Hz					
Power Consumption	130 W / 1.9 A		120 W / 1.7 A	125 W / 1.8 A		
Screen Size	36"/90 cm measured diagonally, full square	32"/80 cm measured diagonally, full square	27"/68 cm measured diagonally, full square	36"/90 cm measured diagonally, full square	32"/80 cm measured diagonally, full square	
Audio Output	3W + 3W					
Speakers	3 3/16" x 4 3/4" 8 x 12 cm oval x 2	2" x 4 3/4" 5 x 12 cm oval x 2	2" x 4 3/4" 5 x 12 cm oval x 2	3 3/16" x 4 3/4" 8 x 12 cm oval x 2	2" x 4 3/4" 5 x 12 cm oval x 2	
Antenna Terminal	75 ohms (VHF/UHF) terminal (F-type connector)					
External Input Jacks	Video: 1 Vp-p, 75 ohms Audio: 500 mVrms (-4 dBs), high impedance					
S-Video Input Jack	Y: 1Vp-p positive, 75 ohms (negative sync provided) C: 0.286 Vp-p (burst signal), 75 ohms					—
Audio Output Jacks	More than 0 to 1550 mVrms (+6 dBs), low impedance (400 Hz when modulated 100%)					—
AV Compu Link Jack	3.5 mm mini jack x 1					—
Dimensions (inches) (W x H x D) – (cm)	33 7/8 x 30 1/8 x 23 3/4 86.0 x 76.5 x 60.3cm	30 1/4 x 26 1/4 x 21 1/2 76.8 x 66.7 x 54.7 cm	25 3/4 x 23 3/8 x 20 1/2 65.4 x 59.1 x 51.8cm	33 7/8 x 30 1/8 x 23 3/4 86.0 x 76.5 x 60.3cm	30 1/4 x 26 1/4 x 21 1/2 76.8 x 66.7 x 54.7cm	30 1/4 x 26 1/4 x 21 1/2 76.8 x 66.7 x 54.7cm
Weight (lbs.) Weight (kg.)	149.2 (lbs.) 67.8 (kg.)	112.2 (lbs.) 51.0 (kg.)	67.8 (lbs.) 30.8 (kg.)	149.2 (lbs.) 67.8 (kg.)	112.2 (lbs.) 51.0 (kg.)	112.2 (lbs.) 51.0 (kg.)
Accessories	Remote control x 1 • AA batteries x 2					

Specifications subject to change without notice.

JVC COMPANY OF AMERICA
DIVISION OF JVC AMERICAS CORP.
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Wayne, New Jersey 07470

JVC CANADA, INC.
21 Finchdene Square
Scarborough, Ontario
Canada M1X 1A7

LCT0307-001A-A
1298-TN-JII-JIM